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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|--------------------------------|-----------------------|------------------------|-------------------------|-----------------|
| 09/681,992 | 07/05/2001 | Sam Shiaw-Shiang Jiang | ASTP0013USA | 1171 |
| 7590 09/26/2005 | | | EXAMINER | |
| NAIPO (North | America International | JACKSON, JENISE E | | |
| P.O. Box 506 Merrifield, VA | 22116 | | ART UNIT | PAPER NUMBER |
| Weithiold, VII 22110 | | | 2131 | ··· |
| | | | DATE MAIL ED. 00/26/200 | <i>e</i> |

Please find below and/or attached an Office communication concerning this application or proceeding.

| 1 | Application No. | Applicant(s) | | | | |
|--|--|--|--|--|--|--|
| 1 | 09/681,992 | JIANG ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| • | Jenise E. Jackson | 2131 | | | | |
| The MAILING DATE of this communication a | | | | | | |
| Period for Reply | • | • | | | | |
| A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNION (1.1.136(a)). In no event, however, may a riod will apply and will expire SIX (6) MON atute, cause the application to become AB | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 21 | 1 July 2005. | | | | | |
| 2a)⊠ This action is FINAL . 2b)□ T | This action is FINAL . 2b) This action is non-final. | | | | | |
| <i>,</i> — | | | | | | |
| closed in accordance with the practice unde | er Ex parte Quayle, 1935 C.D | D. 11, 453 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-7 is/are pending in the applicatio | 4) Claim(s) <u>1-7</u> is/are pending in the application. | | | | | |
| 4a) Of the above claim(s) is/are withd | Irawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) Claim(s) <u>1-7</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and | d/or election requirement | | | | | |
| o) Claim(s) are subject to restriction and | a/or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Exam | iner. | • | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ a | | | | | | |
| Applicant may not request that any objection to t | | | | | | |
| Replacement drawing sheet(s) including the corr | | | | | | |
| , | LAMITHET. Note the attached | d Office Action of John 1 10-102. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign | ign priority under 35 U.S.C. { | § 119(a)-(d) or (f). | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 2. Certified copies of the priority docume3. Copies of the certified copies of the p | | | | | | |
| application from the International Burn | • | rreceived in this National Stage | | | | |
| * See the attached detailed Office action for a l | | received. | | | | |
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| Amarkananya | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | 4) Interview 9 | Summary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(| s)/Mail Date | | | | |
| Information Disclosure Statement(s) (PTO-1449 or PTO/SB/I Paper No(s)/Mail Date | (08) 5) | nformal Patent Application (PTO-152) | | | | |

Application/Control Number: 09/681,992

Art Unit: 2131

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Cao(6,876,639).
- 3. As per claim 1, Cao discloses an interleaved local suspend and reset method for a wireless communications system(see col. 9, lines 15-45), the wireless communications system including a first station in wireless communications with a second station along at least one channel(see col. 4, lines 6-23), the first station initiating a local suspend function for the channel(see col. 4, lines 23-30) to perform a ciphering configuration change(see col. 6, lines 25-51), a suspend point determined by a first sequence number (SN); prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel(see col. 4, lines 39-56), the reset procedure causing a next layer 2 protocol data unit to be transmitted have an SN equal to default value(see col. 9, lines 15-45); in response to the reset procedure, setting the first SN of the suspend point equal to a default value; and awaiting the resume command for the channel to terminate the local suspend function, wherein the default value is zero(see col. 4, lines 51-64, col. 9, lines 15-45, col. 6, lines 40-51).
- 4. As per claim 2, Cao discloses wherein setting the first SN of the suspend point equal to the default value causes the first station to thereafter immediately halt transmission of layer 2

Application/Control Number: 09/681,992

Art Unit: 2131

(PDUs) to the second station along the channel while the local suspend function for the channel is active(see col. 8, lines 39-67).

- 5. As per claim 3, Cao discloses wherein the suspend point comprises a hyper-frame number (HFN) associated with the SN of the suspend point, and in response to the reset procedure, the HFN is set equal to a transmitting HFN of the first station(see col. 9, lines 15-45).
- 6. As per claim 4, Cao discloses wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command(see col. 6, lines 25-51).
- 7. As per claim 5, Cao discloses an interleaved local suspend and reset method for a wireless communications system(see col. 9, lines 15-45), the wireless communications system comprising a first station in wireless communications with a second station along at least one channel(see col. 4, lines 6-23), to perform a ciphering configuration change(see col. 6, lines 25-51), the first station initiating a local suspend function for the channel a suspend point determined by a first sequence number (SN) and a first hyper-frame number (HFN) to form a first HFN/SN pair(see col. 4, lines 23-56); prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel, the reset procedure causing a next layer 2 protocol data unit(PDU) to be transmitted have an associated HFN/SN pair having an incremented HFN value and an SN value equal to zero(see col. 4, lines 39-56, col. 6, lines 40-51); after the reset procedure, and prior to terminating the local suspend function, the first station transmitting along the channel to the second station no layer 2 (PDUs) having associated HFN/SN pairs that are sequentially after the first HFN/SN pair; and awaiting the resume command for the channel to terminate the local suspend function(see col. 9, lines 15-45).

Application/Control Number: 09/681,992 Page 4

Art Unit: 2131

8. As per claim 6, Cao discloses wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command(see col. 6, lines 25-51).

9. As per claim 7, Cao discloses wherein after the reset procedure, and prior to terminating the local suspend function, the first station transmits along the channel to the second station layer 2 PDUs having associated HFN/SN pairs that are sequentially before the first HFN/SN pair (see col. 9, lines 19-45).

Response to Amendment

The Applicant states that Cao does not disclose a reset procedure causing a next layer 2 protocol data unit(PDU) to be transmitted have an SN equal to a default value wherein the default value is zero. The Examiner disagrees with the Applicant. Cao discloses that a TCPHN algorithm receives a notification from the physical layer that the mobile host is in handoff, the TCPHN variable to denote the handoff(see col. 6, lines 40-46). The TCPHN may be in a binary state variable or any other type of state suited to denote the beginning and the end of a mobile handoff. The TCPHN could be a binary state variable set to a non-zero value when a handoff is in progress and set to zero when a handoff is not in progress. The TCPHN could be set to zero to denote a handoff is in progress and to a non-zero value otherwise(see col. 6, lines 40-51).

Action is Final, Necessitated By Amendment

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Page 5

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/681,992

Art Unit: 2131

September 22, 2005

Primary Examinar ANZISI aprilos Page 6